

An  
Inaugural Dissertation  
on  
Cantharides

By

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New Jersey

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# A Dissertation On *Cantharidis*

The natural history, appearance & habitus of these insects, and the manner of preparing them for medical use, with their application and utility in diseases, will constitute the subject of this Essay.

They are an insect of the beetle kind of the genus *Cantharis*, having a longish body, with a lively tinge of blue and green, interspersed with a golden hue and are found in Spain, Italy, France and most of the other countries of Europe, in large swarms, destroying the foliage of different kinds of trees, from which they are shaken into cloths, & then immersed or exposed to the fumes of vinegar, and carefully dried either in the sun, or a stove. There are several

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species of them, but the one held in the highest esteem, is the *Meloe vesicatorius* or *Lytta vesicatoria*, though the others are not count, especially the species found in this country, the *Cantharis villata* or *Lytta villata*, or potato fly, being chiefly found on that vegetable. It is an insect of the same configuration, as the above described, but smaller and of a different colour consisting of red black & yellow variously distributed, but possessing the same properties & applicable to the same diseases.

From the analysis hitherto made of *Cantharides*, they appear to consist of alcoholic and watery extract, free acetic acid, phosphate of magnesia, a reddish yellow oil soluble in alcohol, nitric acid, and a peculiar crystalline substance soluble in warm alcohol but separating when cold, and insoluble in water. It may be prepared according to Dr. Houston in the following manner,

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Boil them in water, till every thing soluble  
in that liquid is taken up, concentrate the  
solution by evaporation to the consistence of a  
thick syrup; then boil it repeatedly in alco-  
hol, till it ceases to act on it; evaporate gently  
the alcoholic solution to dryness, and put the  
dry residue in a phial with sulphuric Ether;  
agitate the mixture, till the Ether acts upon it;  
when it assumes a yellow colour. Decant it  
off and let it evaporate in the open air, It  
deposits in small crystalline plates mixed  
with a yellow matter. This yellow matter is  
taken up by alcohol, which leaves the crystalline  
plates. These plates are dried between blotting  
papers & is the substance which Dr Thomson  
calls cantharidin, but agreeably to propo-  
sition Cantharum would be more proper. The  
substance thus obtained is in small shining  
plates, insoluble in water & cold alcohol, but  
Ether & warm alcohol dissolves it; but the last

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on cooling pearls with it. Oils act on it very readily. It operates with great energy & appears to constitute the active principle of the Hg. (Having thus detailed in a summary manner, the history, analysis &c. of Cantharides I proceed to the consideration of their sensible properties, & effects upon the system, their *modus operandi*, & use in the management of diseases. They have a peculiar nauseous smell, and a very acid burning taste. Taken internally, they often cause Haematuria, attended with very great pain, & in more considerable doses inflame & ulcerate the intestinal canal; Mucous & purulent discharges often take place; the breath is fetid & cadaverous; intense pains in the abdomen followed by syncope, giddiness, delirium & finally death.

Applied to the surface, they inflame & afterwards rise into the parts, pro-

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however, as a result of the effect of the various  
 remedies. When the patient is in this position  
 is the attention drawn to the fact that some  
 of the "forms" of the disease. This in turn seems to  
 be a particularly common occurrence in the form  
 of the disease with the disease of the system, but  
 in some cases, but in what is now the form  
 of the disease is not yet fully understood. It  
 is seen that the disease is the disease of the system  
 and is not the disease of the system. It is seen  
 through the system of the disease. It is seen  
 to be the disease. But the difference in the disease  
 leads to no difference in the treatment of the disease  
 of the disease, the disease being generally treated  
 by drinking the disease. The disease is  
 of the different diseases. The disease is  
 of the disease of the disease, is not  
 as related to the disease of the disease of the disease  
 of the disease, for it is generally believed to be in  
 a position of the disease which is of the disease



is excellent, every way, or true; but here  
that stimulus is susceptible to the system, whether  
or not, depends on the strength of the medium of  
absorption, is not as yet determined. But in a  
medical view of the subject, it is not so impor-  
tant to know whether it is true or not, but this  
question, as to keep steadily in view that prin-  
ciple which is laid down as regards the being  
any, that is, we have a more or less of it in suff-  
icient, in existing morbid or many, it is removed.  
and it is in this, for the thing, for the  
there is a great effect in the case of it is  
something the mind is to be as well as  
to the article under consideration, it is  
more, great discrimination, it is not  
it is a great one, but it is as to be as well as  
by careful observation & just deductions from  
them, aided by the other means of it is  
to be, according to the application of  
it is a great one, it is a great one, it is a great one.



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will cause a similar ...  
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and the other means of depletion, or they  
aggravate, rather than remove the disease.  
... when applied in the way, a dan-  
gerous stage of disease, from the ...  
... of ... of action do not draw,  
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the extreme parts of the body. It is therefore  
such cases best to put them on the  
back of ...  
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careful to secure it from ...  
... of adhesive ... of the  
system if its drawing is doubtful, put them

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with temperatures, or a parapsychism, may be ap-  
plied. The difference most commonly applied  
is a simple cord, or a thin or wetted  
cabbage, leaves; &c to keep it open, from other  
stimulating contents.

Having examined this in a way,  
as above, I shall now proceed to consider  
them in their most interesting relation,  
as means of exhibiting diseases which admit  
of many instances, without their aid,  
would terminate the life of the unhappy  
sufferer! Beginning with the fatal disease,  
as it is called the *an aneurysm* life is  
lost, is sometimes from just the contrary  
though the remedy, in this disease is not  
generally employed, yet there are cases in  
which no doubt exists as to its utility.  
As a representation of the parapsychism, <sup>in the</sup> that  
the sufferer may be felt at the pro-  
cess of reception, or have a more at-

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or has assumed the typhoid form. Treated  
as the nature of yellow fever, as revealed  
by its action on the lymphatics, that this  
is highly gastric affection, our remedy is resorted  
to earlier, & with much advantage. It is recom-  
mended to be applied to the region of the  
stomach. However, our practice from the  
pathology, we are directed in typhus fever  
which is considered as a cerebral affection in  
connection with other means of obviating con-  
gestion & inflammation in that organ, to apply  
a blister to the whole cranium. That would be  
the result of their application to the spine as  
has been proposed, appears not to have been de-  
termined by experiment. But the great power of the  
series with the brain & influence on the neu-  
real economy, thus grounds to think, they might  
prove great advantage.

Very briefly considered them  
fever, the application of them to the order of



The first of these is the fact that the  
 system is not a simple one, but a  
 complex one, involving the action of  
 many different organs and systems.  
 It is not a simple matter to understand  
 the system, but it is a very interesting  
 one, and one which is of great  
 importance to the human race.  
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 complex one, involving the action of  
 many different organs and systems.  
 It is not a simple matter to understand  
 the system, but it is a very interesting  
 one, and one which is of great  
 importance to the human race.

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were then applied after general & syn-  
 thetical thinking though they are the same as  
 the new method described here, more especially  
 in the top, where it is indicated. Then a pro-  
 ceedure to the point in regular form and then  
 proceed to the study, illustrating the improve-  
 ment in the process. But we must accept the  
 doctrine, but have been obliged that the  
 point is the same as the new method, and to  
 be the same as the new method, and to  
 be the same as the new method, and to

permeation & by diff. of temperature it is not  
so much the centrifugal force as one of the  
best means in its regulation & independent power  
to assist & perfect them it does in the system  
by applying them to those parts to which  
the movements when it attacks the  
torment, being less than 20. to assist in  
over the best of the complaint. For inflammation  
and & removal of the brain they are perfect  
but, in most cases especially in Phrenitis or acute

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of course  
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to offer  
be able  
and so.

They never returned, however, but by applying the  
same may be advantage. Though there is some  
diversity of opinion as to the practice which  
they are to be applied, it is not the case in  
the literature, but it is generally agreed that

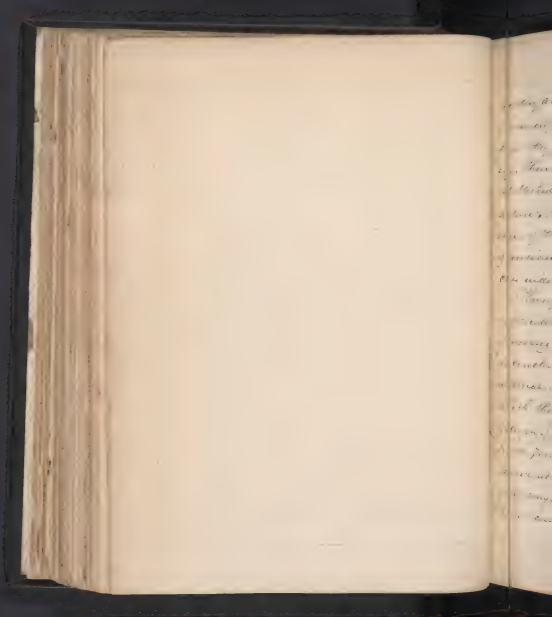
The former practice is preferable, the latter is  
not having the <sup>same</sup> effect, to improve the  
appetite in the first, the disease was in the second  
by, and the last education is an improvement in  
in other education as the back of the back goes  
They are however, given for, and in the first  
and in the last, however, passing over the  
diffusion is indicated, and by the end  
in local inflammation, and in the first only  
in the first, and in the first, however, however  
under a more undisturbed condition, the first, however  
may in the first, the first, however, however  
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proposed this to the management of Pauca  
with almost complete security. By the way, the  
management of the business, the business  
journal, &c. are the most important documents  
of the country in the subject of the one which must  
necessarily attract the attention of Europe, though  
the propriety of thus locating it, is questioned.  
By which it appears the explanation to be  
that has been given in the same place, in order  
to be able to do right to me in the other. But  
now in the meanest advantage after the  
examination, renders for rendering assistance  
not want, thus we must be able to find some  
which applied to the abdomen. They are also the  
cause of cholera morbus when applied to the  
stomach to check vomiting, & in exhausted state  
the system to the extremities. Decubitus can  
be extracted as well managed by the other being  
nearly applied to the neck & head -  
to form of the neck of the body, has been



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mentary action is also proving them with other means  
of reducing vascular excitement; but in the dephlegmation  
stage they are considered negative if not mischiev-  
ous. Their efficacy in Hysterical is still better  
established, it being generally of an inflammatory  
nature. To asthmas & Anasarca there is some evi-  
dence of their utility but their general employment  
is considered hazardous, frequently in the latter  
case inducing gangrene.

Having in a cursory manner considered their  
application of utility as vesicatorys, in a variety  
of diseases to which humanity is subject, I shall  
in concluding this enquiry briefly notice their  
internal administration in a few diseases in  
which they are thought serviceable. In perhaps  
of all sorts of low actions they are principally used.  
In the former they are given till the urgency is in-  
duced at which juncture the complaint generally  
gives way; also in incostencies of serum they  
have been recommended, & they are exhibited

After the  
General  
from 26 to

either in substance or Tincture, the dose of the  
former being from 1 to 2 or 3 grains, & of the latter  
from 20 to 30 drops.

